

Environmental Product Declaration

Average EPD

In accordance with ISO 14025:2010 and EN 15804:2012+A2:2019/AC:2021

Marcato HPL Cubicle Range

Washroom Washroom Ltd



Programme

EPD Square | www.epdsquare.com

Programme operator

EPD Square, s.r.o.

EPD Registration number

SQ 00-076

Publication date

27.08.2026

Valid until

26.08.2031

General information

Product

Marcato HPL Cubicle Range

Program operator

EPD Square, s.r.o.
Lermontovova 3, 811 05,
Bratislava, Slovak Republic
Email: info@epdsquare.com

Registration number

SQ 00-076

Publication date

27.08.2026

Valid until date

26.08.2031

Owner of the declaration

Washroom Washroom Limited
Contact person: Bradley Melville
Email: melville@washroom.co.uk

Manufacturer

Washroom Washroom Ltd
Units 1-10 Hill, Farm Epping, Lane Abridge
Essex, RM4 1TU, United Kingdom
Telephone: +44 (0)800 999 8888
Email: sales@washroom.co.uk

Place of production

Washroom Washroom Ltd
Units 1-10 Hill, Farm Epping, Lane Abridge
Essex, RM4 1TU, United Kingdom

Product Category Rules (PCR)

EPD Square PCR v1.0.1, 2025

Declared/Functional unit

1 Unit of Marcato HPL Cubicle Measuring 910 mm (W) x
1740 mm (D) x 2400 mm (H)

Mass per DU

101.6 kg

UN CPC code

31422 Other plywood, veneered panels and similar
laminated wood, of non-coniferous wood

Geographical scope

United Kingdom

Year of study

2024

Comparability

EPDs of construction products may not be comparable if
they do not comply with EN 15804 and if they are not
compared in the context of the building.

EPD author

Silvia Vilčeková, Jana Budajová, EPD Clarity, s.r.o.

**Verification type**

Independent verification of the declaration and data,
according to ISO14025:2010

Internal: ☐

External: ☒

Verified by

Daniel Satola, Daniel Satola Consulting

Satola Daniel

The owner of the declaration shall be liable for the underlying information and evidence.

EPD Square shall not be liable with respect to manufacturer, life cycle assessment data and evidence.

System boundaries

The EPD covers Cradle-to-gate with options, modules C1-C4, module D and additional modules (A4, A5).

Modules declared and geographical scope

	Product stage			Construction process stage		Use stage							End of life stage				Resource recovery stage
	Raw material supply	Transport	Manufacturing	Transport	Construction installation	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	De-construction demolition	Transport	Waste processing	Disposal	Reuse-Recovery-Recycling-potential
Module	A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Modules declared	✓	✓	✓	✓	✓	ND	ND	ND	ND	ND	ND	ND	✓	✓	✓	✓	✓
Geographic scope	GLO	GLO	UK	UK	UK	ND	ND	ND	ND	ND	ND	ND	UK	UK	UK	UK	UK

Not declared = ND.

Description of organization

Since 2001, Washroom Washroom Limited has been a leader in designing and manufacturing premium washroom and changing room solutions. Operating from its Essex-based facilities, the company delivers bespoke cubicles, vanities, lockers, and duct panelling with a focus on quality, innovation, and sustainability. Its commitment to excellence has earned industry recognition, establishing Washroom Washroom Limited as a trusted partner for projects across the UK.

Product information

Product name

Marcato HPL Cubicle Range

Product description

This Environmental Product Declaration covers the Marcato HPL washroom cubicle range, a bespoke, high-performance toilet and changing cubicle solution designed for premium interior applications. The product is supplied as a complete system including doors, pilasters, partitions, headrails, pedestal legs, and all associated ironmongery and mounting hardware, ready for installation on site.

Marcato HPL cubicles are constructed using a 36 mm moisture-resistant MDF core (or 22 mm variant), faced on both sides with high-pressure laminate (HPL) and edged in matching or complementary hardwood or PVC. Vertical edges are rebated to create a flush, edge-to-edge façade between doors and pilasters, providing a seamless appearance and enhanced user privacy. Partitions are also formed from MR MDF or chipboard, faced both sides with HPL and lipped in matching HPL or 2 mm PVC, depending on specification. The design delivers a refined flush frontage with minimal visible joints, suitable for high-end architectural interiors.

The system incorporates satin anodised aluminium components including a 50 × 10 mm flat-bar headrail, full-length channels, and adjustable pedestal legs for stability across uneven floor levels. High-quality stainless steel architectural hardware includes indicator locks, self-closing hinges, and coat hooks, with all fittings supplied in satin polished finishes for a cohesive aesthetic.

The system can be manufactured to a standard height of 2100 mm or extended to a full-height, floor-to-ceiling configuration reaching up to 3000 mm to provide complete privacy. Floor clearance is typically 80 mm, with standard cubicle depths ranging from 1500 mm, and bespoke dimensions available on request. Document M-compliant accessible configurations are offered, including outward-opening doors with stainless steel pull handles and optional grab rails.

Product application

The Marcato HPL system is intended for high-specification washroom environments such as commercial offices, luxury hospitality venues, cultural institutions, and public facilities, where durability, privacy, and visual refinement are essential. The EPD covers the complete cubicle assembly as delivered to site, excluding site-installed walls, ceilings, floor finishes, or connected sanitaryware.

Geographical scope

United Kingdom

Product contents information

Product components	Weight, kg	Post-consumer material, weight-%	Renewable material, weight-%
High Pressure Laminate	10.0	0	63
Medite MR MDF/ Bamboo panels	67 / 96.6	0	91
Surface Mounted Lock	2.5	0	0
Self Closing Hinges	2.35	0	0
Coat Hook	1.75	0	0
Adhesive	1.89	0	0
TOTAL	85.5 - 115.1	0	78.68 - 81.83
Packaging materials	Weight, kg	Weight-% (versus the product)	
Cardboard box + protection	3.5	4.09 - 3.04	
Wooden pallet	10.0	11.7 - 8.69	
PP strapping	0.2	0.23 - 0.17	
TOTAL	13.7	16.02 - 11.90	

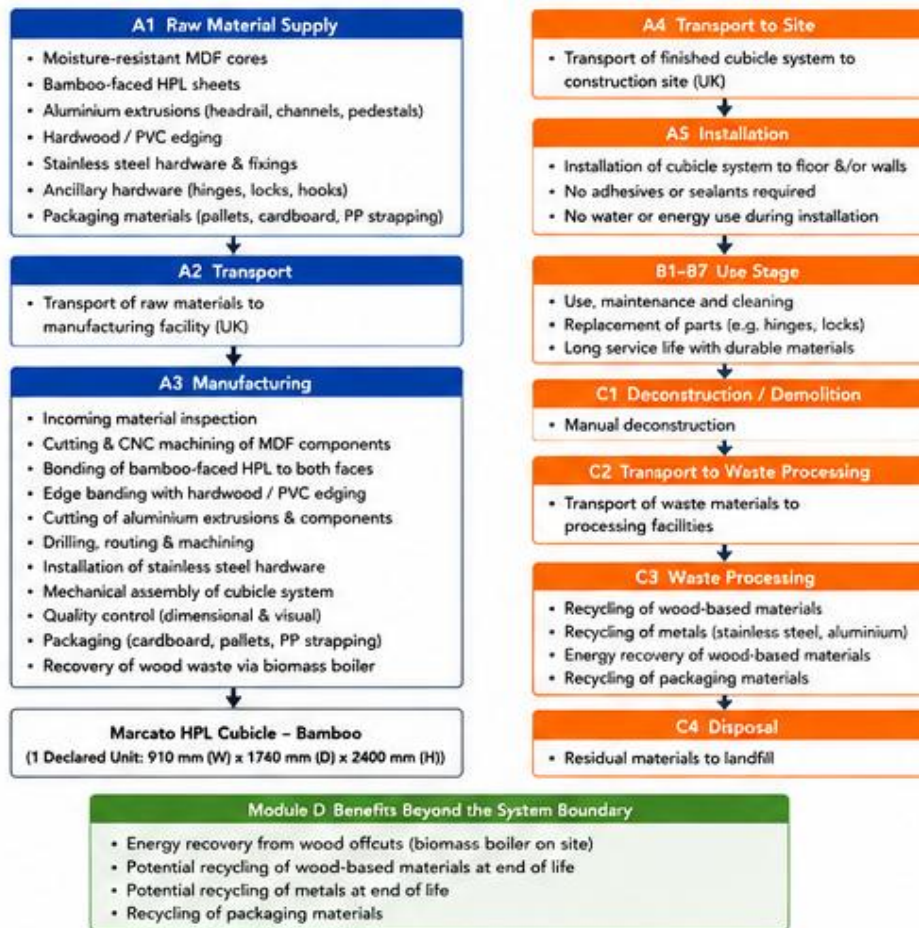
Manufacturing process

The Marcato Cubicle HPL is manufactured at Washroom Washroom Limited's production facility in the United Kingdom using a controlled manufacturing process shared across the Marcato HPL product family. Production begins with the inspection of incoming materials, including moisture-resistant MDF cores, bamboo-faced high-pressure laminate panels, aluminium extrusions, hardwood or PVC edging, stainless steel architectural hardware and ancillary packaging materials.

Moisture-resistant MDF components are precision cut and CNC machined before bamboo-faced HPL sheets are bonded to both faces. Panel edges are finished using matching hardwood or PVC edging, while rebated door and pilaster edges are machined to produce the characteristic flush façade. Aluminium headrails, pedestal legs and fixing channels are cut and prepared for final assembly.

Following manufacture of individual components, stainless steel hinges, indicator locks, coat hooks and associated fittings are mechanically installed. Product variants share identical construction and manufacturing methods, differing only in decorative surface finish. Finished cubicles undergo dimensional, visual and functional quality inspections before packaging and dispatch.

Manufacturing consists primarily of CNC cutting, routing, drilling, adhesive bonding, edge finishing and mechanical assembly. Production electricity is allocated according to annual output. Packaging materials comprise cardboard protection, timber pallets and polypropylene strapping. Timber offcuts generated during manufacture are utilised as fuel within the site's biomass boiler, reducing manufacturing waste.



Life cycle assessment

Cut-off criteria

The study does not exclude any modules or processes which are stated mandatory in the standards and PCR. The study does not exclude any hazardous materials or substances.

The study includes all major raw material and energy consumption. All inputs and outputs of the unit processes for which data is available are included in the calculation. There is no neglected unit process more than 1% of total mass and energy flows. The total excluded input and output flows do not exceed 5% of energy usage or mass.

The production of capital equipment, construction activities, and infrastructure, maintenance and operation of capital equipment, personnel-related activities, energy and water use related to company management and sales activities are excluded.

The LCA includes all industrial processes from raw material acquisition to production, distribution, installation and end-of-life stages. The study includes modules A1-A3, A4, A5, C1-C4 and D modules, and does not exclude any modules or processes which are stated mandatory in the EN 15804:2012+A2:2019 and the applied PCR.

Allocation, estimations, and assumptions

Allocation is based on the annual production output of the manufacturing facility. Primary manufacturing data, including material consumption, electricity use, packaging materials and waste generation, were allocated to the declared unit using a mass-based allocation in accordance with EN 15804+A2. Where allocation could not be avoided, physical relationships were applied.

This EPD represents averaged results in accordance with the applicable averaging rules.

Database(s) and LCA software

This EPD has been created using One Click LCA Pre-Verified EPD Generator. Ecoinvent v3.11, Environmental Product Declarations and One Click LCA databases were used as sources of environmental data.

LCA scenarios and additional technical information

Module A1

This module covers the extraction, upstream processing and intermediate production of all materials used in the cubicle, including aluminium channel, bamboo cores, stainless steel hardware and adhesive systems used during assembly. Generic metalworking processes are modelled where specific supplier data is unavailable.

Module A2

This module accounts for the transportation of all input materials from their suppliers to the manufacturing site. Transport is modelled using representative European logistics, including HGV road transport and container ship where applicable, based on verified supplier locations and typical routing assumptions. Freight distances are derived from supplier declarations and logistics modelling.

Module A3

This module covers all processing operations at the production facility, including panel cutting, CNC drilling, edge finishing and assembly of the cubicle components. Energy consumption from electricity and heating is included using a market-based electricity mix. Packaging materials such as cardboard, pallet wood and polypropylene strapping are included. Wood offcuts generated during manufacturing are used in an on-site biomass boiler for energy recovery, reducing production waste to landfill and contributing to renewable heat provision for the facility.

Manufacturing energy scenario (A3)

Electricity data source and quality	Electricity, medium voltage, residual mix, United Kingdom	Ecoinvent 3.11
Electricity CO _{2e} / kWh	0.47	

Module A4

The delivery of the finished cubicle system to the construction site is modelled using a 3.5-tonne EURO 6 compliant van. A conservative average transport distance of 150 km is assumed to represent typical regional deliveries from the manufacturing facility to the site; this distance is considered a realistic upper bound given variability in customer locations. Due to protective palletisation and secure packaging, no material losses are expected during transport.

Transportation scenario (A4)

Vehicle type used for transport	Transport, freight, lorry, 3.5-7.5 metric ton, diesel, EURO 6, Ecoinvent 3.11
Distance to the construction site	150 km
Capacity utilization	1
Capacity utilization factor	1

Module A5

Installation is carried out manually using standard hand tools, with no requirement for powered lifting equipment or energy-consuming machinery. A silicone-based sealant is applied on site to ensure watertight joints and proper panel alignment. As no cutting, modification, or trimming of materials is required during fitting, no material losses occur during installation. Packaging materials (e.g. wooden pallets, cardboard, polypropylene strapping) are removed at this stage and modelled for end-of-life treatment.

Module C1

The energy and use of natural resources during deconstruction are considered negligible; dismantling is assumed to be carried out manually with basic hand tools and no significant auxiliary inputs (C1).

Module C2

Following removal, materials are collected as mixed construction and demolition waste and transported by European heavy goods vehicles to licensed treatment facilities. Transport is modelled by route: 250 km to recycling operations, 150 km to energy-recovery plants, and 50 km to landfill, reflecting typical regional haulage to each destination.

Module C3

At the waste management facility, materials are sorted and routed using Eurostat & BuildLCA treatment splits. Timber-based fractions (softwood and MDF/OSB/particleboard) are separated and treated as follows: 26% is recycled (wood chipping/post-consumer chips), 50% is sent to incineration with energy recovery. Energy and resource inputs for sorting, chipping and pre-treatment are included here (C3). Incineration of timber yields exported electricity and heat; energy substitution is modelled with lower heating value-based efficiencies (electricity and thermal generation) consistent with the datasets used. Metal components are modelled as stainless steel and aluminium. In line with Eurostat & BuildLCA, 95% of stainless steel is recovered for recycling. Sorting/pressing loads are included. For aluminium, 90% is recovered for recycling. Sorting/pressing loads are included (C3).

Module C4

24% of timber-based fractions is landfilled to represent non-recoverable residues and quality losses. 5% of stainless steel and 10% of aluminium is assumed to be landfilled to reflect collection and sorting losses. Adhesive and sealant residues are treated as non-recyclable inert waste and are landfilled, with a representative haulage of 150 km to disposal (C2); no additional processing beyond compliant disposal is assumed. Final disposal of non-recoverable timber residues and other rejects is captured in this module.

End of life (C1, C3, C4)

	Value	Unit
Collected separately	87.4	kg
Collected as mixed construction waste	0.0	kg
Reuse	0.0	kg
Recycling	28.4	kg
Energy recovery	0.0	kg
To landfill	21.8	kg

Module D

Module D accounts for benefits and loads beyond the system boundary arising from material recovery and energy substitution. Recycled stainless steel is credited with the avoidance of primary chromium/alloy steel production, after deducting the loads associated with collection and recycling processes. Recycled aluminium is credited with the avoidance of primary aluminium production, after deducting the loads associated with collection and recycling processes. For timber fractions, two benefits are credited: (i) recycling to secondary wood-chip markets (post-consumer), and (ii) incineration with energy recovery, which delivers exported electricity and heat that substitute grid electricity and fossil heat carriers; biogenic carbon flows are treated in line with the dataset assumptions. These avoided burdens are reported as net substitutions consistent with EN 15804, ensuring that credits from C3 are not double-counted in Module D.

Data quality

The data quality assessment was carried out in accordance with EN 15941 and the Product Environmental Footprint (PEF) data quality methodology. Manufacturer-specific production data were collected for the reference period January 2024 – December 2024 and complemented with supplier-specific Environmental Product Declarations (EPDs), where available, and ecoinvent v3.11 (2024) background datasets. The overall data quality of the assessment was evaluated as Good to Very Good, with high geographical, technological and temporal representativeness. No significant data gaps or quality issues affecting the conclusions of the study were identified.

LCA results

Results are presented per 1 Unit (Declared Unit) of the product. Estimated impact results are only relative statements which do not indicate the end points of the impact categories, exceeding threshold values, safety margins or risks.

Core environmental impact indicators – EN 15804+A2

Indicator	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
GWP-total	kg CO ₂ eq.	4.69E+01	9.70E+00	1.96E+01	0.00E+00	1.53E+00	6.99E+01	2.20E+01	-8.97E+01
GWP-fossil	kg CO ₂ eq.	1.53E+02	9.70E+00	3.38E+00	0.00E+00	1.53E+00	9.27E-01	2.24E-01	-5.35E+01
GWP-biogenic	kg CO ₂ eq.	-1.07E+02	0.00E+00	1.62E+01	0.00E+00	-6.78E-21	6.90E+01	2.18E+01	-3.58E+01
GWP-LULUC	kg CO ₂ eq.	5.61E-01	3.64E-03	2.96E-03	0.00E+00	7.20E-04	8.03E-04	1.36E-04	-4.13E-01
ODP	kg CFC-11 eq.	1.22E-05	2.10E-07	6.62E-05	0.00E+00	2.25E-08	1.14E-08	5.70E-09	-7.11E-07
AP	mol H ⁺ eq.	1.91E+00	2.02E-02	1.25E-02	0.00E+00	4.04E-03	9.20E-03	1.56E-03	-3.26E-01
EP-freshwater	kg P eq.	2.87E-02	7.96E-04	8.93E-04	0.00E+00	1.70E-04	5.17E-04	1.61E-04	-4.78E-02
EP-marine	kg N eq.	2.47E-01	4.46E-03	4.47E-03	0.00E+00	1.01E-03	3.93E-03	6.61E-03	-5.89E-02
EP-terrestrial	mol N eq.	2.81E+00	4.81E-02	2.84E-02	0.00E+00	1.09E-02	3.85E-02	6.54E-03	-5.90E-01
POCP	kg NMVOC eq.	1.93E+00	3.05E-02	1.14E-02	0.00E+00	5.91E-03	1.00E-02	2.66E-03	-1.97E-01
ADP-M&M	kg Sb eq.	1.86E-02	4.62E-05	2.32E-05	0.00E+00	4.48E-06	1.49E-05	4.19E-07	-9.50E-04
ADP-fossil	MJ	2.51E+03	1.36E+02	5.35E+01	0.00E+00	2.26E+01	1.10E+01	5.04E+00	-7.71E+02
WDP	m ³	1.23E+02	7.98E-01	4.67E+00	0.00E+00	1.34E-01	1.42E+00	2.21E-01	-4.76E+01

GWP-total: Global Warming Potential; **GWP-fossil:** Global Warming Potential fossil fuels; **GWP-biogenic:** Global Warming Potential biogenic; **GWP-LULUC:** Global Warming Potential land use and land use change; **ODP:** Depletion potential of the stratospheric ozone layer; **AP:** Acidification potential, Accumulated Exceedance; **EP-freshwater:** Eutrophication potential, fraction of nutrients reaching freshwater end compartment; See “additional requirements” for indicator given as P04 eq. **EP-marine:** Eutrophication potential, fraction of nutrients reaching freshwater end compartment; **EP-terrestrial:** Eutrophication potential, Accumulated Exceedance; **POCP:** Formation potential of tropospheric ozone; **ADP-M&M:** Abiotic depletion potential for non-fossil resources (minerals and metals); **ADP-fossil:** Abiotic depletion potential for fossil resources; **WDP:** Water deprivation potential, deprivation weighted water consumption

Additional (optional) environmental impact indicators – EN 15804+A2

Indicator	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
PM	Disease incidence	3.17E+00	5.20E-07	1.36E-07	0.00E+00	1.46E-07	1.05E-07	3.61E-08	-5.10E-06
IRP	kBq U235 eq.	1.79E+01	2.48E-01	3.12E-01	0.00E+00	1.95E-02	1.12E-01	4.01E-03	-1.10E+01
ETP-fw	CTUe	5.59E+03	1.21E+02	1.87E+02	0.00E+00	2.54E+01	2.78E+01	2.12E+03	-2.61E+03
HTP-c	CTUh	1.98E+00	1.75E-09	4.74E-09	0.00E+00	2.52E-10	1.32E-09	5.67E-11	-5.66E-08
HTP-nc	CTUh	1.98E+00	8.18E-08	3.75E-08	0.00E+00	1.44E-08	8.75E-08	4.25E-09	-9.24E-07
SQP	Dimensionless	8.83E+03	5.62E+01	1.75E+01	0.00E+00	2.24E+01	6.90E+00	1.17E+01	-6.72E+02

PM: Particulate matter emissions; **IRP:** Ionising radiation, human health; **ETP-fw:** Ecotoxicity (freshwater); **ETP-c:** Human toxicity, cancer effects; **HTP-nc:** Human toxicity, non-cancer effects; **SQP:** Land use related impacts / soil quality

Use of natural resources

Parameter	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
RPEE	MJ	1.64E+03	3.10E+00	-1.97E+02	0.00E+00	3.13E-01	-6.51E+02	-3.13E+02	-1.46E+02
RPEM	MJ	5.86E+02	0.00E+00	-1.96E+02	0.00E+00	0.00E+00	-2.96E+02	-9.36E+01	2.65E+02
TPE	MJ	2.23E+03	3.10E+00	-3.93E+02	0.00E+00	3.13E-01	-9.47E+02	-4.07E+02	1.19E+02
NRPE	MJ	2.37E+03	1.36E+02	3.67E+01	0.00E+00	2.26E+01	1.10E+01	5.04E+00	-7.71E+02
NRPM	MJ	2.06E+02	0.00E+00	-1.67E+01	0.00E+00	0.00E+00	-1.44E+02	-4.61E+01	4.14E+01
TRPE	MJ	2.58E+03	1.36E+02	2.00E+01	0.00E+00	2.26E+01	-1.33E+02	-4.11E+01	-7.30E+02
SM	kg	8.45E+00	7.30E-02	1.29E-02	0.00E+00	9.46E-03	1.68E-02	1.69E-03	6.01E+00
RSF	MJ	6.97E+00	8.14E-04	2.82E-04	0.00E+00	1.23E-04	1.87E-04	3.40E-05	-9.39E-03
NRSF	MJ	1.91E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
W	m ³	1.70E+01	1.84E-02	9.05E-02	0.00E+00	3.40E-03	1.07E-02	-6.88E-02	-1.04E+00

RPEE: Renewable primary energy resources used as energy carrier; **RPEM:** Renewable primary energy resources used as raw materials; **TPE:** Total use of renewable primary energy resources; **NRPE:** Non-renewable primary energy resources used as energy carrier; **NRPM:** Non-renewable primary energy resources used as materials; **TRPE:** Total use of non-renewable primary energy resources; **SM:** Use of secondary materials; **RSF:** Use of renewable secondary fuels; **NRSF:** Use of non-renewable secondary fuels; **W:** Use of net fresh water

End of life – Waste

Parameter	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
HW	kg	1.58E+01	2.10E-01	1.87E-01	0.00E+00	4.92E-02	2.76E-01	8.28E-03	-3.45E+01
NHW	kg	3.83E+02	5.25E+00	1.94E+01	0.00E+00	9.40E-01	4.09E+01	4.95E+01	-2.52E+02
RW	kg	1.12E-02	6.18E-05	7.92E-05	0.00E+00	4.77E-06	2.87E-05	9.81E-07	-2.85E-03

HW: Hazardous waste disposed; **NHW:** Non-hazardous waste disposed; **RW:** Radioactive waste disposed

End of life – Output flows

Parameter	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
CR	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MR	kg	0.00E+00	0.00E+00	6.19E+00	0.00E+00	0.00E+00	2.84E+01	0.00E+00	0.00E+00
MER	kg	1.77E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EEE	MJ	5.49E+00	0.00E+00	7.76E+00	0.00E+00	0.00E+00	9.39E+01	0.00E+00	0.00E+00
ETE	MJ	0.00E+00	0.00E+00	1.07E+01	0.00E+00	0.00E+00	1.29E+02	0.00E+00	0.00E+00

CR: Components for reuse; **MR:** Materials for recycling; **MER:** Materials for energy recovery; **EEE:** Exported electric energy; **ETE:** Exported thermal energy

Information describing biogenic carbon content at factory gate

Biogenic carbon content	Value	Unit
Biogenic carbon content in product	11.18	kg C
Biogenic carbon content in the accompanying packaging	4.42	kg C

Specific data (GWP-GHG) and data variation for A1-A3specific data and data variation	Value-%
Specific data	32.06%
Variation - product	-6.21%; 32.75%
Variation - site	-

The largest variations between the products are primarily caused by differences in the high-pressure laminate (HPL) and bamboo.

Hazardous substances

- ☒ The product does not contain any REACH SVHC substances in amounts greater than 0.1 %.

Contact information

Programme operator

EPD Square, s.r.o.
Lermontovova 3, 811 05
Bratislava, Slovak Republic
Email: info@epdsquare.com

EPD owner

Washroom Washroom Ltd
Email: sales@washroom.co.uk
Website: <https://www.washroom.co.uk/>

Author of Life Cycle Assessment (LCA)

Silvia Vilčeková, Jana Budajová, EPD Clarity, s.r.o.
Email: vilcekova@epdclarity.com; budajova@salvis.sk
Website: <https://www.epdclarity.com/>

EPD verifier

Daniel Satola, Daniel Satola Consulting
Email: danielsatolaconsulting@gmail.com

Bibliography

ISO 14020:2000

Environmental labels and declarations – General principles

ISO 14025:2010

Environmental labels and declarations - Type III environmental declarations - Principles and procedures

ISO 14040:2006

Environmental management - Life cycle assessment - Principles and framework

ISO 14044:2006

Environmental management - Life cycle assessment - Requirements and guidelines

EN 15804:2012+A2:2019/AC:2021

Sustainability of construction works - Environmental product declaration - Core rules for the product category of construction products

EN 15941:2024

Sustainability of construction works - Data quality for environmental assessment of products and construction work - Selection and use of data

EPD Square PCR v.1.0, 2024

EPD Square, General Programme Instructions v.1, 2024

Ecoinvent database v3.10.1/v3.11 (2024) and One Click LCA database

EPD Door equipments (handles, locks, thumb turns, toilet indicators, escutcheons) (d line)

EPD Zinc ingots, Zamak alloy ingots ZL3 (GENLIS METAL)

EPD Aluminum extrusion profiles from billets, mill-finished, 2700 kg/m³ (HYDRO ALUMINIUM UK LTD)

EPD Laminated veneer lumber (LVL), calculated average for United Kingdom, 560 kg/m³ (One Click LCA)

EPD Paper-resin laminate facing, 961 g/m² (Fritz EGGER)

EPD Decorative high-pressure laminate panels, 0.8 mm, 1.08 kg/m², 1350 kg/m³, POLYREY HPL® (POLYREY SAS)

EPD Bamboo panels, calculated averages for United Kingdom, 700 kg/m³ (One Click LCA)

EPD HPL panel, 0.7 mm, 1.02 kg/m², FENIX® Bloom 0.7mm (Arpa Industriale)

EPD Thin high pressure laminates (HPL), Thickness range: 0.5-1.8 mm, 1 mm, 1.4 kg/m², 1400 kg/m³ (Greenlam Industries Limited)

EPD Medium-density fiberboard (MDF) panels, 710 kg/m³, 4-8 % moisture content, MEDITE MR MDF (MEDITE Europe DAC)

Annex

Environmental impacts – EN 15804+A1, CML/ISO 21930

Indicator	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
GWP	kg CO ₂ eq.	6.39E+01	9.65E+00	3.98E+00	0.00E+00	1.52E+00	9.21E-01	1.28E+00	-5.38E+01
ODP	kg CFC-11 eq.	1.45E-06	1.68E-07	7.05E-05	0.00E+00	1.81E-08	9.47E-09	4.58E-09	-6.31E-07
AP	kg SO ₂ eq.	9.87E-01	1.64E-02	1.02E-02	0.00E+00	3.23E-03	6.77E-03	1.15E-03	-2.72E-01
EP	kg PO ₄ eq.	3.54E-01	4.44E-03	1.51E-01	0.00E+00	7.99E-04	2.04E-03	7.84E-04	-4.13E-02
POCP	kg C ₂ H ₄ eq.	5.55E-02	1.66E-03	1.11E-03	0.00E+00	2.96E-04	4.86E-04	3.26E-04	-2.17E-02
ADP-M&M	kg Sb eq.	1.52E-03	4.50E-05	1.95E-05	0.00E+00	4.36E-06	1.47E-05	4.06E-07	-9.43E-04
ADP-fossil	MJ	8.91E+02	1.32E+02	4.82E+01	0.00E+00	2.23E+01	9.07E+00	4.97E+00	-5.84E+02

Environmental impacts – GWP-GHG

Indicator	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
GWP - GHG	kg CO ₂ eq.	1.54E+02	9.70E+00	3.38E+00	0.00E+00	1.53E+00	9.28E-01	2.24E-01	-5.39E+01

GWP- GHG: Global Warming Potential, greenhouse gases